I claim:

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1	1.	A method for providing custom-engineered products, comprising:
2		providing an online catalog having an unavailable product/attribute selector;
3		receiving a selection of an unavailable product/attribute that requires one or more of
4		engineering and testing before it may be produced.
	2.	The method of claim 1, further comprising: suggesting an existing/standard product based upon and as a replacement for the selection.
122	3.	The method of claim 1, further comprising: determining a resource cost for the unavailable product/attribute.
1	4.	The method of claim 1, further comprising:
2		assigning a category of design requirements to the unavailable product/attribute.
1	5.	The method of claim 4, further comprising:
2	ē + <u></u>	determining a resource cost for the unavailable product/attribute;
3		assigning a first category to the unavailable product/attribute if the resource cost is
4		relatively lower;
5		assigning a second category to the unavailable product/attribute if the resource cost is

6		relatively higher.
1	6.	The method of claim 4, further comprising:
2		transmitting a request for the unavailable product/attribute to an address associated with
3		the assigned category.
1	7.	The method of claim 6, further comprising:
2		transmitting the request to a manufacturing facility for the unavailable product/attribute if
		it is assigned to a first predefined category.
und dam dien.	8.	The method of claim 6, further comprising:
2		transmitting the request to an engineering department for the unavailable product/attribute
		if it is assigned to a second predefined category.
1	9.	The method of claim 1, further comprising:
2		providing a list of available products in the online catalog.
1	10	. The method of claim 1, further comprising:
2		obsoleting an available product by moving it from the list of available products to a list of
3		unavailable products.
1	11	. The method of claim 1, further comprising:
2		receiving an order of an available product and transmitting a request to a manufacturing

3	facility.
1	12. The method of claim 1, wherein the unavailable product/attribute selector comprises a list
2	of unavailable products/attributes.
1	13. The method of claim 12, further comprising:
2	classifying an item in the list of unavailable products/attributes.
and and had been been as a special wife with	14. The method of claim 1, wherein the unavailable product/attribute selector comprises an online form.
11	15. A method for providing available and unavailable products/attributes and for operating an
.2	associated computer system having at least one of each of the following:
1 2 3	a central processing unit (CPU);
4	a visual interface in communication with the CPU;
5	a memory in communication with the CPU; and
6	a user interface selection device in communication with the CPU;
7	the method comprising:
8	displaying a list of available products, stored in a memory of the computer system,
9	on a visual interface of the computer system; and
10	providing an unavailable product/attribute selector in the computer system.
1	16. The method of claim 15, further comprising:

2	storing in a memory of the computer system a list of unavailable products/attributes.
1	17. The method of claim 16, further comprising:
2	displaying the list of unavailable products/attributes on a visual interface of the computer
3	system.
1	18. The method of claim 16, further comprising:
-2	storing in a memory of the computer system a category of design requirements associated
	with the unavailable products/attributes.
Tony thing	19. The method of claim 15 further comprising:
2	receiving a selection of an unavailable product/attribute via a selection signal from a user
	interface selection device of the computer system; and
4	displaying a resource cost to the unavailable product/attribute on a visual interface of the
5	computer system.
1	20. The method of claim 15 further comprising:
2	receiving a selection of an unavailable product/attribute via a selection signal from a user
3	interface selection device of the computer system; and
4	identifying, by a CPU of the computer system, one or more available products, from the
5	list of available products, that has similar characteristics to those of the selected
6	unavailable product/attribute; and
7	displaying the identified one or more available products on a visual interface of the

8	computer system.
1	21. The method of claim 15 further comprising:
2	generating a specification for a product in response to receiving, by a CPU of the
3	computer system, a selection signal from the user interface selection device of a
4	unavailable product/attribute.
.1 	22. The method of claim 21, further comprising:
2	transmitting from a CPU of the computer system via electronic transmission a signal
	representative of the specification.
1	23. The method of claim 21, further comprising:
2	providing a list of resources in a memory of the computer system; and
3	allocating the list of resources using a CPU of the computer system, the allocation based
4	at least in part, upon the specification.
1	24. The method of claim 21, further comprising using a CPU of the computer system for:
2	comparing the specification to the list of available products;
3	selecting an available product, from the list of available products, that has similar
4	characteristics to those of the specification; and
5	identifying a base material common to the specification and the selected available
6	product.

1	30. The method of claim 29 further comprising:
2	receiving a selection of an unavailable product/attribute via a selection signal from the
3	user interface selection device;
4	storing a resource cost heuristic in a memory of the computer system;
5	calculating a resource cost for the unavailable product/attribute based on the selected
6	unavailable product/attribute and the resource cost heuristic using a CPU of the
7	computer system.
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(a) and talk from it belong that it is	31. The method of claim 29 further comprising:
	receiving a selection of an unavailable product/attribute via a selection signal from a user
3	interface selection device of the computer system; and
4	using a CPU of the computer system for:
	calculating a resource cost for the unavailable product/attribute;
6	comparing the resource cost to a list of available resources;
7	making an accept/reject decision.
1	32. The method of claim 29 further comprising:
2	storing in a memory of the computer system a list of unavailable products; and
3	moving an item from the list of available products to a list of unavailable products using a
4	user interface selection device of the computer system.
1	33. The method of claim 29 further comprising:
2	receiving a selection of an unavailable product/attribute via a selection signal from a user

3	interface selection device of the computer system; and
4	transmitting from a CPU of the computer system via electronic transmission a signal
5	representative of a request for quotation.
1	34. A method for offering products, comprising:
2	providing a set of available product data records in a memory, each available product data
3	record containing a specification for an associated available product;
4	providing a set of unavailable product data records in the memory, each unavailable
	product data record containing a specification for an associated unavailable
6	product;
7	displaying the set of available product data records and the set of unavailable product data
8	records on a visual display;
8 9 0	receiving an input, via a user interface selection device, of a user selection from the set of
0	unavailable product data records.
1	35. The method of claim 34 wherein at least one of the unavailable product data records is a
2	variance from an available product data record.
1	36. The method of claim 34 wherein at least one of the unavailable product data records
2	represents an existing, but untested, product.
1	37. A method for offering custom products, comprising:
2	receiving into a processor an input, via a user interface selection device, of a specification

3	for an unavailable product;
4	executing a resource costing module in the processor to determine the resource cost for
5	creating the unavailable product;
6	transmitting from the processor via electronic transmission a price based upon the
7	resource cost.
1	38. A method for offering products, comprising:
2	providing a set of available product data records in a memory, each available product data
23	record containing a specification for an associated available product;
	providing a set of variance data records in the memory, each variance data record
115	containing an allowed variance to an associated available product;
<u></u>	displaying the set of available product data records and the set of variance data records on
=== ==9 ====	a visual display;
8	receiving an input, via a user interface selection device, of a user selection from the set of
9	variance data records.
1	39. A memory structure implemented in a computer system, comprising:
2	a read/write memory device coupled to the computer system providing the memory
3	structure;
4	an available product list implemented in the read/write memory;
5	an unavailable product/attribute selector implemented in the read/write memory allowing
6	selection of products/attributes not currently available from a given provider.

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- 1 40. The memory structure of claim 39, wherein the unavailable product/attribute selector is 2 an unavailable product/attribute list.
- 41. The memory structure of claim 39, wherein the unavailable product/attribute selector
 comprises an unavailable product/attribute request form.